

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/966,507			678-624(P9625)	5307
28249 75			EXAMINER	
DILWORTH & BARRESE, LLP 333 EARLE OVINGTON BLVD.			TORRES, JUAN A	
UNIONDALE,	NY 11553		ART UNIT	PAPER NUMBER
			2631	

DATE MAILED: 11/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/966,507	JO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Juan A. Torres	2631				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versillure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be the triple and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. imely filed not this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>03 N</u>	<u>ovember 2005</u> .					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
·						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summar Paper No(s)/Mail [
Notice of Dransperson's Patent Drawing Review (P10-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)				

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/03/2005 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-6 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification doesn't disclose controlling a transmitter portion to operate only during a transmission burst period; and controlling a radio reception portion to operate only during a reception burst period.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Application/Control Number: 09/966,507

Art Unit: 2631

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamane (US 5764648).

As per claim 1, Yamane discloses an apparatus for generating transmission local oscillation signals and reception local oscillation signals in a mobile terminal, comprising a first phase locked loop (PLL) block configured to generate a transmission local oscillation signal (abstract; figure 1 and figure 11A block 4; column 1 lines 15-42); a radio transmitter portion for receiving the transmission local oscillation signal (abstract; figure 1 and figure 11A block 3; column 1 lines 15-42); a second PLL block for generating a reception local oscillation signal (abstract; figure 1 and figure 11A block 5; column 1 lines 15-42); a radio reception portion for receiving the reception local oscillation signal (abstract; figure 1 and figure 11A block 6; column 1 lines 15-42); and a controller configured to control the first PLL block to operate before a minimum time period required for the first PLL block to lock up from the start point of a transmission burst period, and to control the second PLL block to operate before a minimum time period required for the second PLL block to lock up from the start point of a reception burst period to control the radio transmitter portion to operate only during a transmission burst period and to control the radio reception portion to operate only during a reception burst period (abstract; figure 1 and figure 11A block 11; figure 2; column 1 lines 15-55).

As per claim 2, Yamane discloses an apparatus for generating a transmission local oscillation signal and a reception local oscillation signal in a mobile terminal,

Art Unit: 2631

comprising a first PLL block configured to generate the transmission local oscillation signal (abstract; figure 1 and figure 11A block 4; column 1 lines 15-42); a radio transmitter portion for receiving the transmission local oscillation signal (abstract; figure 1 and figure 11A block 3; column 1 lines 15-42); a second PLL block configured to generate the reception local oscillation signal (abstract; figure 1 and figure 11A block 5; column 1 lines 15-42); a radio reception portion for receiving the reception local oscillation signals (abstract; figure 1 and figure 11A block 6; column 1 lines 15-42); and a controller for controlling the first PLL block to operate before an end point of a reception burst period for controlling the second PLL block to operate before an end point of a transmission burst period, for controlling the radio transmitter portion to operate only during a transmission burst period and for controlling the radio reception portion to operate only during a reception burst period (abstract; figure 1 and figure 11A block 11; figure 2; column 1 lines 15-55).

As per claim 3, Yamane discloses a method of generating a transmission local oscillation signal and a reception local oscillation signal in a mobile terminal having a first PLL block for generating the transmission local oscillation signal and a second PLL block for generating the reception local oscillation signal (abstract; figure 1 and figure 11A blocks 4 and 5; column 1 lines 15-42), comprising controlling the first PLL block to operate before a minimum time period required for the first PLL block to lock up from the start point of a transmission burst period (abstract; figure 1 and figure 11A blocks 11 and 4; column 1 lines 15-42); controlling a radio transmitter portion to operate only during a transmission burst period (abstract; figure 1 and figure 11A blocks 11 and 8;

column 1 lines 15-42); controlling the second PLL block to operate before a minimum time period required for the second PLL block to lock up from the start point of a reception burst period (abstract; figure 1 and figure 11A blocks 11 and 5; column 1 lines 15-42); and controlling a radio reception portion to operate only during a reception burst period (abstract; figure 1 and figure 11A blocks 11 and 9; column 1 lines 15-42).

Page 5

As per claim 4, Yamane discloses claim 3. Yamane also discloses applying the reception local oscillation signal generated from the second PLL block to a radio receiver for the reception burst period (abstract; figure 1 and figure 11A blocks 5 and 6; column 1 lines 15-42); and applying the transmission local oscillation signal generated from the first PLL block to the radio transmitter for the transmission burst period (abstract; figure 1 and figure 11A blocks 3 and 4; column 1 lines 15-42).

As per claim 5 Yamane discloses a method of generating a transmission local oscillation signal and a reception local oscillation signal in a mobile terminal having a first PLL block for generating the transmission local oscillation signal and a second PLL block for generating the reception local oscillation signal (abstract; figure 1 and figure 11A blocks 4 and 5; column 1 lines 15-42) comprising controlling the first PLL block to operate before the end point of a reception burst period (abstract; figure 1 and figure 11A blocks 11 and 4; column 1 lines 15-42); controlling a radio transmitter portion to operate only during a transmission burst period (abstract; figure 1 and figure 11A blocks 11 and 8; column 1 lines 15-42); controlling the second PLL block to operate before the end point of a transmission burst period (abstract; figure 1 and figure 11A blocks 11 and 5; column 1 lines 15-42); and controlling a radio reception portion to operate only during

Art Unit: 2631

a reception burst period (abstract; figure 1 and figure 11A blocks 11 and 9; column 1 lines 15-42).

As per claim 6 Yamane discloses claim 5. Yamane also discloses applying the reception local oscillation signal generated from the second PLL block to a radio receiver for the reception burst period (abstract; figure 1 and figure 11A blocks 5 and 6; column 1 lines 15-42); and applying the transmission local oscillation signal generated from the first PLL block to a radio transmitter for the transmission burst period (abstract; figure 1 and figure 11A blocks 3 and 4; column 1 lines 15-42).

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Kosiec (US 5838202 A).

As per claim 1, Kosiec discloses an apparatus for generating transmission local oscillation signals and reception local oscillation signals in a mobile terminal, comprising a first phase locked loop (PLL) block configured to generate a transmission local oscillation signal (figure 1 block 109; column 1 line 29 to column 2 line 32); a radio transmitter portion for receiving the transmission local oscillation signal (figure 1 block 105; column 1 line 29 to column 2 line 32); a second PLL block for generating a reception local oscillation signal (figure 1 block 108; column 1 line 29 to column 2 line 32); a radio reception portion for receiving the reception local oscillation signal (figure 1 block 103; column 1 line 29 to column 2 line 32); and a controller configured to control the first PLL block to operate before a minimum time period required for the first PLL block to lock up from the start point of a transmission burst period, and to control the second PLL block to operate before a minimum time period required for the second PLL

Art Unit: 2631

block to lock up from the start point of a reception burst period to control the radio transmitter portion to operate only during a transmission burst period and to control the radio reception portion to operate only during a reception burst period (figure 1 blocks 110 and 118; column 1 line 29 to column 2 line 32).

As per claim 2, Kosiec discloses an apparatus for generating a transmission local oscillation signal and a reception local oscillation signal in a mobile terminal, comprising a first PLL block configured to generate the transmission local oscillation signal (figure 1 block 109; column 1 line 29 to column 2 line 32); a radio transmitter portion for receiving the transmission local oscillation signal (figure 1 block 105; column 1 line 29 to column 2 line 32); a second PLL block configured to generate the reception local oscillation signal (figure 1 block 108; column 1 line 29 to column 2 line 32); a radio reception portion for receiving the reception local oscillation signals (figure 1 block 103; column 1 line 29 to column 2 line 32); and a controller for controlling the first PLL block to operate before an end point of a reception burst period for controlling the second PLL block to operate before an end point of a transmission burst period, for controlling the radio transmitter portion to operate only during a transmission burst period and for controlling the radio reception portion to operate only during a reception burst period (figure 1 blocks 110 and 118; column 1 line 29 to column 2 line 32).

As per claim 3, Kosiec discloses a method of generating a transmission local oscillation signal and a reception local oscillation signal in a mobile terminal having a first PLL block for generating the transmission local oscillation signal and a second PLL block for generating the reception local oscillation signal (figure 1 blocks 108 and 109;

column 1 line 29 to column 2 line 32), comprising controlling the first PLL block to operate before a minimum time period required for the first PLL block to lock up from the start point of a transmission burst period (figure 1 blocks 109, 110 and 118; column 1 line 29 to column 2 line 32); controlling a radio transmitter portion to operate only during a transmission burst period (figure 1 blocks 105, 110 and 118; column 1 line 29 to column 2 line 32); controlling the second PLL block to operate before a minimum time period required for the second PLL block to lock up from the start point of a reception burst period (figure 1 blocks 108, 110 and 118; column 1 line 29 to column 2 line 32); and controlling a radio reception portion to operate only during a reception burst period (figure 1 blocks 103, 110 and 118; column 1 line 29 to column 2 line 32).

Page 8

As per claim 4, Kosiec discloses claim 3. Kosiec also discloses applying the reception local oscillation signal generated from the second PLL block to a radio receiver for the reception burst period (figure 1 block 116; column 1 line 29 to column 2 line 32); and applying the transmission local oscillation signal generated from the first PLL block to the radio transmitter for the transmission burst period (figure 1 block 117; column 1 line 29 to column 2 line 32).

As per claim 5 Kosiec discloses a method of generating a transmission local oscillation signal and a reception local oscillation signal in a mobile terminal having a first PLL block for generating the transmission local oscillation signal and a second PLL block for generating the reception local oscillation signal (figure 1 blocks 108 and 109; column 1 line 29 to column 2 line 32) comprising controlling the first PLL block to operate before the end point of a reception burst period (figure 1 blocks 109, 110 and

118; column 1 line 29 to column 2 line 32); controlling a radio transmitter portion to operate only during a transmission burst period (figure 1 blocks 105, 110 and 118; column 1 line 29 to column 2 line 32); controlling the second PLL block to operate before the end point of a transmission burst period (figure 1 blocks 108, 110 and 118; column 1 line 29 to column 2 line 32); and controlling a radio reception portion to operate only during a reception burst period (figure 1 blocks 103, 110 and 118; column 1 line 29 to column 2 line 32).

As per claim 6 Kosiec discloses claim 5. Kosiec also discloses applying the reception local oscillation signal generated from the second PLL block to a radio receiver for the reception burst period (figure 1 block 116; column 1 line 29 to column 2 line 32); and applying the transmission local oscillation signal generated from the first PLL block to a radio transmitter for the transmission burst period (figure 1 block 117; column 1 line 29 to column 2 line 32).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Juan A. Torres whose telephone number is (571) 272-3119. The examiner can normally be reached on Monday-Friday 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/966,507

Art Unit: 2631

Page 10

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Juan Alberto Torres 11-14-2005 KEVIN BURD PRIMARY EXAMINES